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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,276	11/25/2003	Constantin Donea	143572-1	8751	
23413 759	90 05/17/2006	EXAMINER			
CANTOR COLBURN, LLP 55 GRIFFIN ROAD SOUTH			LONEY, DONALD J		
BLOOMFIELD,			ART UNIT	PAPER NUMBER	
			1772		

DATE MAILED: 05/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/723,276	DONEA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Donald Loney	1772	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet v	vith the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 01	DATE OF THIS COMMUN 1.136(a). In no event, however, may a rd will apply and will expire SIX (6) MO ute, cause the application to become A ling date of this communication, even  March 2006. his action is non-final.  rance except for formal ma	ICATION. The reply be timely filed ENTHS from the mailing date of this come (ABANDONED) (35 U.S.C. § 133). The reply filed, may reduce any entire timely filed, may reduce any entire timely filed, may reduce any entire timely filed.	munication.
Disposition of Claims			
<ul> <li>4) ☐ Claim(s) 1-3 and 5-28 is/are pending in the at 4a) Of the above claim(s) 13-28 is/are withdras</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1-3 and 5-12 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an according an according an according an according to the Replacement drawing sheet(s) including the corresponding to the specific according to th	ccepted or b) objected to se drawing(s) be held in abeya ection is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bures * See the attached detailed Office action for a list	nts have been received.  Ints have been received in a lority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National St	tage
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date	. •
<ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ul>	5)  Notice of 6) Other:	Informal Patent Application (PTO-1	52)

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Aisenbrey (6741221) as presented in the last office action, mailed December 12, 2005.

Aisenbrey discloses a multiwall sheet comprising a first sheet 40 and second sheet 42 which are connected by what can be considered ribs 60. The sheets contain a metallic electrically conductive filler. Refer to figures 4A and 4B along with column 3, line 21 through column 5, line 12.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2, 3, 5, 6 and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aisenbrey as presented in the last office action, mailed December 12, 2005.

The primary reference teaches the invention substantially as recited except for the specific polymers of claims 1-3, 5 and 6, nanotubes of claim 8, properties of claims 9 and 10 and additives of claim 11. Aisenbrey does each to use any polymer resins produced by GE PLASTICS (the assignee the instant application). See the 35 U.S.C. 102 rejection above.

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to Aisenbrey to use the specific polymers recited motivated by the fact Aisenbrey teaches to use any GE PLASTICS polymers. For claim 8, it would be obvious to substitute one conductive filler for another, motivated by the fact Aisenbrey teaches to include conductive fillers. The properties of claims 9 and 10 would be obvious to one of ordinary skill in the art motivated by the fact one would include the required amount of conductive filler to impart said properties in order to conform the product to its desired application. The additives per claim 11 would be obvious as a known means to provide a particular function thereto.

5. Claims 1-3 and 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeHeras et al (4773534) in view of Schmitz et al (5360658) as presented in the last office action, mailed December 12, 2005.

DeHeras discloses a multiwall sheet comprising a first sheet 32 or 35 and second sheet 34 or 36 which are connected by ribs 33. The sheet is disclosed as being

made of an electrically conductive plastic. Refer to figures 5-7 along with column 2, line 24-64. DeHeras et al does fail to disclose that an electrically conductive filler is used to impart said conductivity.

Schmitz et al discloses to include carbon black (one of applicants' fillers in claim 7) in a polymer resin in order to provide conductivity thereto. Refer to the Abstract along with column 1, lines 17-22, 40-42 and column 2, lines 58-65.

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to DeHeras et al to include carbon black (or any other conductive filler) in the resin, as taught by Schmitz et al, in order to impart conductivity thereto motivated by the fact DeHeras et al teaches the resin as conductive. The specific polymers per claims 1-3, 5 and 6 are obvious to one of ordinary skill motivated by the fact DeHeras et al teaches to use polymer resins and substituting one polymer for another would be obvious to a skilled artisan. The properties of claims 9 and 10 would be obvious to one of ordinary skill in the art motivated by the fact one would include the required amount of conductive filler to impart said properties in order to conform the product to its desired application. The additives per claim 11 would be obvious as a known means to provide a particular function thereto.

6. Claims 1-3 and 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dobler (6680350) in view of Schmitz et al as presented in the last office action, mailed December 12, 2005.

Dobler et al teaches a molding composition for forming glazings there from that contains a variety of resins recited by the applicant in claims 1-3, 5 and 6. Refer to

in the resin (column 8, lines 29-45).

column 4, lines 38-49. The composition can be used to form twin or multi wall sheets (i.e. two sheets interconnected with ribs as applicant recites in claim 1 and shows in figures 1 and 2). Refer to column 10, lines 9-20. It can also contain antioxidants per claim 11. Dobler et al does fail to specifically disclose an electrically conductive filler included in the resin. Dobler et al does disclose generally that it is know to include fillers

Schmitz et al discloses to include carbon black (one of applicants' fillers in claim 7) in a polymer resin in order to provide conductivity thereto. Refer to the Abstract along with column 1, lines 17-22, 40-42 and column 2, lines 58-65.

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to Dobler et al to include carbon black (or any other conductive filler) in the resin, as taught by Schmitz et al, in order to impart conductivity thereto motivated by the fact Dobler et al teaches that fillers can be included in the resin. The properties of claims 9 and 10 would be obvious to one of ordinary skill in the art motivated by the fact one would include the required amount of conductive filler to impart said properties in order to conform the product to its desired application. The additives per claim 11 would be obvious as a known means to provide a particular function thereto.

### Response to Arguments

7. Applicant's arguments filed March 1, 2006 have been fully considered but they are not persuasive. The applicant argues that Aisenbrey fails to teach ribs that have a long axis approximately orthogonal to two shorter axes and substantially longer than the

short axis, and used to form a cellular structure. However, the claims contain no structure relating to the ribs (i.e. the language the applicant refers to above) which would distinguish from the insulating standoff 60, or "posts" as referred to by the applicant, depicted in Aisenbrey. The applicant argues that DeHeras fails to teach the specific plastics recited in the claims. However, the secondary reference to Schmitz does teach the applicants plastic as indicated. Additionally, the substitution of one plastic for another would be obvious to a skilled artisan. The applicant argues that Dobler fails to teach ribs in a multiwalled structure. However, Dobler does teach that twin walled sheets or multiwalled sheets can be formed from the composition (column 10, lines 14-21) and that glazings are formed from this composition (see the Abstract). Multiwalled sheets, in the form of glazings, are typically formed of two sheets with ribs therebetween, therefore, it is the examiners position that this is inherently taught. The references to Jaatinen et al (6649677) and WO 02/36899 are cited as teaching references to the fact. Refer to column 4, lines 62-67 in Jaatinen et al and figures 1-3 in WO 02/36899. The applicant also argues that Dobler fails to disclose conductive fillers. However, Dobler does disclose the addition of fillers and/ or antistatic agents to the composition (column 8, lines 27-45). The apply antistatic properties to the sheets is also the applicant's desire (see paragraph [0001] of the instant specification. The secondary reference to Schmitz et al is relied upon for the teaching of the specific materials (i.e. carbon black filler) used to supply the antistatic properties to the polymer. Therefore, there would be motivation to look to a secondary reference for the particular material to

supply the antistatic properties since the primary reference already appreciates that this is a desirable property for the sheets to have.

#### Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Loney whose telephone number is (571) 272-1493. The examiner can normally be reached on Mon, Tues, Thurs and Fri. 8AM-4PM, flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/723,276

**Art Unit: 1772** 

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald Loney Primary Examiner Art Unit 1772 Page 8

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